## DICTIONARY OF ENGINEERING DATA/CONFIGURATION MANAGEMENT AND CATALOGING/PROVISIONING TERMS

DEVELOPED IN SUPPORT OF
AIR FORCE MATERIAL COMMAND (AFMC)
INTEGRATED WEAPON SYSTEM MANAGEMENT (IWSM)
TECHNICAL INFORMATION PROCESS ACTION TEAM (PAT)
ACTION ITEM E46

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PREPARED BY: MARVIN W. WOODWORTH OC-ALC/TILDOE TINKER AFB, OK 73145-3041

## **FOREWORD**

This dictionary is prepared for an Air Force Integrated Weapon System Management Process Action Team, Action Item E46, for the purpose of identifying terms and definitions in logistics that adversely impact interoperability of existing and future databases.

Terms and term definitions used for the identification of parts and documents vary incompatibly among the disciplines of engineering data, technical manuals, provisioning, DFARSS6 screening, and cataloging. These incompatibilities will severely impair the development of interfaceable databases. Examples of conflicts include "manufacturer", "item identification", "reference number", "part number", "source", "source of supply", "contractor", "original design activity", and mutually undefined terms such as "OEM" and "prime".

This dictionary compares key terms and definitions from the disciplines of configuration/engineering and provisioning/cataloging, and identifies the source document, including colloquial and dialectical departures from each. Comments and comparisons are provided in a "neutral" zone between the definitions.

This dictionary will be of assistance to personnel who:

- a. develop, or prepare functional descriptions for, databases involving any of the above named disciplines.
- b. work on CALS related projects.
- c. perform DFARSS6 screening functions.
- d. perform engineering data management functions.
- e. perform configuration management functions.
- f. perform provisioning or cataloging functions.
- g. perform acquisition functions.
- h. develop policy and procedures for any of the above named functions.
- i. discuss topics and needs with personnel across logistics and configuration, engineering, and acquisition disciplines.

The original and still documented design of the cataloging system has absolutely no connection with "sources" (where an item identified by part number and issuing CAGE code could be procured). It must be noted that new direction from DLA to add "sources" has severely exceeded the designed capabilities of the cataloging system, and is radically eroding the former useability and reliability of the information therein. It is currently not possible for configuration, engineering, or acquisition databases to interface with the cataloging database and obtain coherent, reliable information from it for their uses.

ADMINIS- TRATIVE CONTROL NUMBER	ENGINEERING DATA AND CONFIGURATION MANAGEMENT DEFINITION  ASME Y14.24-89, APPENDIX A, DEFINTIONS. Administrative Control Number a number assigned to one or more interchangeable purchased items by a vendor item drawing (VID) for administrative control purposes. An administrative control number may also be assigned to a subcontractor designed item by a Design Control Drawing (DCD). This number also serves as the part or identifying number for specifying such items in a parts list. The administrative control number includes the VID or DCD number, and is assigned in addition to the item identification assigned by the original design activity.	COMPARISONS  Term is used as the "performance based" identifier established by a performance specification for the purpose of generically identifying a group of interchangeable items that are made to disclosure drawings. When a Commercial Item Description establishes an adequate control number for finite identification, the CID control number also is called an administrative control number.  It must be noted that the DCD item may or may not be reidentified to the control number established on the drawing, depending on the "rules" set up by the DCD.  For the source control drawing, the items are reidentified to the source control part number established by the drawing, and the vendor part numbers cease to exist for identification purposes.	PROVISIONING AND CATALOGING DEFINITIONS  None

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COMMERCIAL AND GOVERNMENT ENTITY (CAGE) CODE		In brief, a CAGE code is a "shorthand" number used to designate a name and address. Very convenient for data bases, in which a complex name, address, and phone number can be represented by only five digits.  A common, serious error is to mistake the CAGE code for a "manufacturer's code". Used by itself, it has no relationship to "manufacturer".  The CAGE code alone merely represents ONLY a name and address, or "entity", and nothing else.  It does NOT mean "manufacturer", nor does it imply a FUNCTION of the entity, such as "manufacturer". The FUNCTIONAL relationship of a CAGE, or CAGE code, is accomplished by prefixing the CAGE code with a "whose" adjective to form a noun phrase, such as "supplier CAGE", "prime contractor CAGE", "vendor CAGE", "Government procuring activity CAGE", "current design activity (ODA) CAGE", "current design activity CAGE", "subcontractor CAGE", etc.  The ODA CAGE code number is always permanently assigned to a drawing and part number. The part number or drawing number and the permanently assigned CAGE code becomes a part of their permanent "two data elements (fields) used conjunctively" system of their identification.  "Replacement" of a CAGE code in the H8 has no impact on the current design activity for an item, as the product line may have been sold to another CAGE code activity other than the "replacement" shown in the H8.	DOD 4100.39-M VOL 12 DRN9250: CODE ASSIGNED TO ESTABLISHMENTS WHICH EITHER FABRICATES ITEMS OF PRODUCTION AND/OR HAVE DESIGN CONTROL OF ITEMS PROCURED BY THE FEDERAL GOVERNMENT, OR TO IDENTIFY CERTAIN MILITARY SPECIFICATIONS OR STANDARDS, AND CERTAIN NUMBERING SYSTEMS DEVELOPED BY GOVERNMENT AGENCIES, PANELS OR COMMITTEES. USED IN THE IDENTIFICATION OF CATALOG DATA IN THE FEDERAL CATALOG SYSTEM AND ALSO FOR IDENTIFYING CONTRACTORS FOR THE MECHANICAL INTERCHANGE OF DATA REQUIRED BY MILSCAP AND THE SERVICES/AGENCIES ADP SYSTEMS. SEE VOLUME 10, TABLES 20, 21, 40, AND 94  DOD 4100.39-M VOL 1: "Any reference number entered into the Federal Catalog System will have a CAGE Code assigned to it prior to entering the central catalog file. The CAGE Code is a five character data element assigned to establishments which are manufacturers or have design control of items of supply procured by the Federal Government. The first and last positions of a CAGE Code will be numeric. Under certain conditions revision actions shall be initiated by DLSC: When a CAGE Code is canceled and replaced by a code assigned to a single manufacturer; or when DLSC cannot determine, without collaboration, which items formerly manufactured by a defunct organization are now manufactured by the acquiring organization(s)."

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CONTRACTOR	MIL-STD-100E PARA 3.20: An individual, partnership, company, corporation, association or other service having a contract with the procuring activity for the design, development, manufacture, maintenance, modification or supply of items under the terms of a contract. A Government activity performing any or all of the above functions is considered to be a contractor for engineering drawing purposes. (MIL-STD-480)	The key words to being classified a contractor are "having a contract with the with the procuring activity".  For item identification purposes, the contractor has no relationship whatever to original or current design activity. The contractor may subcontract design activity functions to a multitude of subcontractors for some or all items deliverable under the contract.	DEFINITION: MIL-STD-1388-1A, APPENDIX B, PARA 20: "Any individual, partnership, public or private corporation, association, institution, or other entity which enters into a specific contract with the government to provide supplies or services."
CONTROL DRAWINGS	ASME Y14.24M-1989 section 8 includes the following types of CONTROL DRAWINGS:  Procurement Control Drawing Vendor Item Drawing (to be replaced with "Vendor Item Control Drawing") Source Control Drawing Design Control Drawing Interface Control Drawing Identification Cross Reference Drawing MIL-STD-100E, PARA 204.2 NOTE 4, A control drawing is a drawing disclosing engineering form, fit, function, and performance requirements for the acquisition of interchangeable purchased items of existing designs, or of items specially developed by vendors to the control drawing requirements. Control drawings permit the acquisition of vendor developed items from specialized segments of industry without disclosing details of designs or divulging proprietary vendor data. A Standardized Military Drawing is a Government peculiar control drawing. See 204.2.3.	Control drawings establish performance based identification of items, which control the group of interchangeable design disclosure items that meet the control drawing's requirements.	None

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DESIGN ACTIVITY		Not adequately definitive. Do not use this term. Term obsolete for use due to confusion over "current" vs "original". Use the replacement terms "current design activity" or "original design activity".  COMMENT: Some within the cataloging community claim that the cataloging system does not use or recognize MIL-STD-100, MIL-STD-130, and MIL-STD-973 terms such as "design activity", "original design activity, and "current design activity. Sources within cataloging disclose that their personnel do not receive any training,, in any form, on MIL-STD-100 identification of items and drawings.	DEFINITION: None.

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DESIGN	MIL-STD-100E PARA 3.24: "An activity	This term has no relationship to the identification	DEFINITION: None
ACTIVITY,	(Government or contractor) currently having	of items. Items are identified to their ORIGINAL	
CURRENT	responsibility for the design of an item, and the	design activity not the current.	
	preparation and maintenance of drawings and		
	associated documents. Current design activity could be the original activity or new activity		
	when that responsibility is transferred from		
	another Government or contractor design		
	activity."		
DESIGN	MIL-STD-100E PARA 3.59: "An	CALS CRITICAL TERM. Next to part	DEFINITION: None.
ACTIVITY,	activity (Government or contractor)	numbers, this term and its CAGE code is the	
ORIGINAL	having had responsibility originally	second most important data element for	
	for the design of an item and whose	identifying parts in a CALS, engineering, and	
	drawing number and CAGE code is	configuration management environment.  Data bases use two data elements to establish	
	shown in the title block of drawings	an item identification:: the part number and	
	and associated documents."	the CAGE code of this "original design	
		activity". It is imperative that all personnel	
	The original design activity on a drawing is	in the disciplines of engineering,	
	normally found in the title block in the lower right corner. EXAMPLE:	configuration management, technical	
	right corner. EXAMILE.	manuals, CALS, and related areas clearly and	
	AIR FORCE	thoroughly understand this term and use it	
	<u>i</u>	properly. See "item identification".	
	CAGE DRAWING NR		
	98748 9325432		
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	Original Design Activity (ODA) CAGE		
DESIGN	DEFINITION: None.		DEFINITION: None.
CONTROL	DEFINITION: None.		DEFINITION: None.
ACTIVITY	PRACTICAL APPLICATION: The		COLLOQUIAL DEFINITION: The activity
	Government activity that exercises		that manufactures a part. Also, the activity
	configuration management and design		that "controls the design", which may be the
	control over a contractor design activity.		manufacturer, government, vendor, prime
			contractor, and others. The single activity
			which controls the design is not clearly
			established, as all may perform some degree
			of design control.
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DESIGN	ASME Y14.24, SECTION 8.3.1.		None.
CONTROL	DESCRIPTION: A design control		See Design Control Reference, Reference,
DRAWING	drawing discloses the basic technical		Control Drawings, and Administrative
	information and performance		Control Numbers
	requirements necessary for a		
	subcontractor to complete the detailed		
	design required to develop and produce		
	and item. The design control drawing		
	specifies the unique identifier of the item -		
	- the identification may be that assigned		
	by the subcontractor's design disclosure		
	drawings (if known) or it may be an		
	administrative control number assigned by the design control drawing. In the		
	latter case, the design control drawing		
	shall remain in the drawing hierarchy as		
	shown in Fig. 2.		
	Shown in Fig. 2.		

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DEGIGNI	DEFINITION: None.	COMMENT: Cataloging uses the term	DOD 4100 20 M VOL 1. UTIL
DESIGN	DEFINITION: None.	"design control reference" in conflict with	DOD 4100.39-M VOL 1: "The primary number used to identify an item of
CONTROL	COLLOQUIAL DEFINITION: A "design	customer use. To cataloging, "reference" is	production, by the manufacturer
REFERENCE	control reference" is a reference made by a	used interchangeably (incorrectly) with "part	(individual company, firm, corporation, or
	document to another document that	number". The customer community, per	Government activity) which controls the
	establishes a form, fit, and function type	MIL-STD-100, has a "design control	design, characteristics, and production of
	requirement for the development of	drawing" which is similar to as "source	the item by means of its engineering
	interchangeable items. This is as opposed to	control drawing". To the customer, a "design	drawings, specifications, and inspection requirements".
	"design disclosure references" which are references to drawings that establish	control reference" is a part number established on a "design control drawing", in	requirements.
	complete design disclosure drawings	the same manner that a source control	
	(manufacturing data) for a specific item.	drawing establishes a "source control	
		reference" or part number.	
		In practice, the term "design control	
		reference" as used by cataloging conflicts, as	
		it is sometimes performance in nature, and	
		sometimes is design disclosure drawing in nature. A design control number as used by	
		customers is always performance in nature.	
		customers is an majo periormance in mature.	
		In addition, in the cataloging definition of	
		"design control reference", the term "item of	
		production" should be corrected to read "item	
		of supply", as in "the dominant part number and CAGE, where there are two or more,	
		used to identify the stock number".	
DESIGN	ASME Y14.24M-1989, APPENDIX A,	asset to identify the stock number.	
DISCLOSURE	DEFINITIONS: Design Disclosure		
DRAWINGS	Drawings A set of drawings and		
	associated data which delineates the		
	detailed engineering requirements of an		
	end product necessary for the fabrication,		
	assembly, inspection, and test of the item.		

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ENGINEERING	MIL-STD-100E, PARA 3.34:	Engineering data often does NOT satisfy	DEFINITION: None.
DATA	Engineering documents such as drawings,	cataloging requirements. Engineering data	
	associated lists, accompanying documents,	often merely calls out part numbers and	
	manufacturer specifications and	CAGE codes, which does not provide the	
	standards, or other information prepared	"characteristics" that cataloging is required	
	by a design activity and relating to the	by a 1952 law to obtain. Thus, extractions	
	design, manufacture, procurement, test or	from engineering data is often not adequate	
	inspection of items.	for provisioning, and must be supplemented	
		by other "non-engineering data" such as	
		catalogs, sketches, owners manuals, photos,	
TOTAL .	NAME OF THE PARTY	brochures, etc	DEFINITION N
ITEM	MIL-STD-100E PARA 3.43: "A non-	COMMENT: This is an area of major communication breakdown between	DEFINITION: None.
	specific term used to denote any unit or product including materials, parts,	cataloging and its customers. Engineering	COLLOQUIAL DEFINITION: A stock
	assemblies, equipment, accessories and	and configuration think of an "item" as a	number.
	computer software."	piece of hardware with a part number, and do	number.
	computer software.	not associate an item with a stock number. In	
		conflict, cataloging and provisioning think of	
		an "item" as a stock number, with its	
		attendant ERRC, RNCC, RNCC, AAC,	
		DAC, and ISC codes, and AIN.	

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ITEM	MIL-STD-100E PARA 3.44: "The	CALS CRITICAL TERM. The	DOD 4100.39-M VOL 1: "A collection and
IDENTIFI-	combination of the part or	complete "What we call it in all	compilation of data to describe an item.
CATION	identifying number and the	information systems" to uniquely	The minimum data to develop an item
	original design activity CAGE	distinguish a specific part from all	identification are a combination of the item name, FSCM, manufacturer's
	code. (NOTE: Not applicable to	other parts, including parts listed	identifying part/reference number,
	vendor item drawings)" (Sic: Not	under NSNs.	Reference Number Category Code
	applicable to vendor items shown	Without Typings	(RNCC), and Reference Number
		A severe conflict in definitions exists	Variation Code (RNVC). The maximum
	on vendor item control drawings.)	here that impairs existing programs, and	data required are the item name, all of the
		seriously impairs the success of future	physical and performance characteristics data prescribed by a specific FIIG, and
		CALS programs.	manufacturer's identifying part/reference
			number. It may also include additional
		Engineering/configuration's "item	reference numbers."
		identification" finitely establishes the	
		identification of a specific single item by specifying a PIN and its ODA CAGE code concurrently. In database systems, the PIN	PRACTICAL APPLICATION: The "item identification" is that data necessary to
		goes in the PIN entry, and the ODA CAGE	establish an NSN, and not a specific item. ("It may also include additional reference
		code goes in the CAGE code entry to form a conjunctive "cradle to grave" never changing	numbers".) "Item identification" thus equates
		identification of a part.	to "NSN identification", or "item of supply identification" (see NIIN) as "item
		Engineering/configuration's "item	identification" includes "CAGE codes,
		identification" is totally unrelated to	FIIGs, RNCCs, RNVCs, AAC, reference
		identification of a stock number. In complete	number(s), ERRC, ISC, noun", etc., in a
		conflict, cataloging's definition of "item identification" is "item <i>OF SUPPLY</i>	totaled relationship to the NSN.
		identification is item <i>OF SUPPLY</i> identification" (i.e., NSN identification).	Importantly, for the identification of items
		identification (i.e., INSIN identification).	within this "item identification" (item of
			supply identification) there is severe disagreement within the cataloging
			community about what the CAGE code next
			to the

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(Item Identification continued)		However, cataloging's "item (OF SUPPLY) identification" DOES NOT PROVIDE THE ITEM IDENTIFICATION ESSENTIAL FOR ITS ENGINEERING, CONFIGURATION, ACQUISITION, AND MANUFACTURING CUSTOMERS. I.e., the precise relationship of a CAGE code to a part number is not defined or provided by cataloging. Direct inquiries to cataloging policy offices regarding interpretation of what the CAGE code represents (design activity, supplier, etc.) beside a part number are contradictory. One policy office stated that "The cataloging system does not make that distinction", and another said it was "not necessarily the supplier". In other words, cataloging does not know what the CAGE code represents when used in conjunction with the part number in the cataloging system.  The engineering/configuration term "item identification" and its definition (i.e., concurrent use of ODA CAGE and PIN) is a vital, indispensable tool in a CALS database environment for the finite identification of items. It has been developed as a "lessons learned" survival tool to avoid "garbage in -garbage out" conditions.	part number represents in its relationship to a specific part number under a specific NSN. Some say the CAGE is the qualified source for an unidentified part number or drawing. Others claim the CAGE is the "design control activity" (in the context of what engineering/configuration calls the current design activity). Others, assimilating direct contradictions in some instances, insist the CAGE is both, or "manufacturer" (current design activity and actual manufacturer of the part). Importantly, there is no consensus or documented criteria for determining what or who the stated CAGE code represents in relation to any of the one or more "part/reference numbers". Some catalogers have advised users that the system does not provide any identification of items in the form required by engineering, configuration, DFARSS6 screeners, equipment specialists, acquisition personnel, and other customers, and that such information must be obtained from other resources. Thus, item identification as needed by users is no longer provided under new unsupported interpretations developed since publication of DOD4100.38-M and DOD4200.39-M.
ITEM OF	DEFINITION: None.	Cataloging directives provide no further	DOD 4100.39-M VOL 1: "Consists of
PRODUCTION	(Not used by engineering/configuration).	guidance for the data elements comprising an "item of production". The relationship of the part number to a CAGE code is not given.	those pieces or objects grouped together with a manufacturer's identifying number and conforming to the same engineering drawings, specifications, and inspection."
		This appears to be cataloging's most important term to users, as it refers to the specific, different items stocked under an NSN, but there is no means in the cataloging system of identifying this "item of production".	PRACTICAL APPLICATION: Rarely used term

TERM  ENGINEERING DATA AND COMMENTS AND COMMENTS AND COMPARISONS  Definition: None  Definition: None  COLLOQUIAL DEFINITION: Rarely used, but when used, is used synonymously with "item". It is not used in connection with a stock number.  Definition: None  COLLOQUIAL DEFINITION: Rarely used, but when used in connection with a stock number.  Definition: None  In brief, an "item of supply" is the NSN, which is treated as though a single item regardless of the number of different items stocklisted under it. NEVER call a specific item (EX: HYLOK part number HI.404-2L) an "item of supply". Only an NSN can be called an "item of supply" on NSN can be called an "item of supply" is the NSN, which may include many different "items of production, or may be a modification (accomplished by the user or at request of the user) of a normal item of production."  PRACTICAL APPLICATION: Le., an "item of supply" is the NSN and all of the different items that are stocklisted under it that cataloging has binned together and used interchangeably in all applications. Importantly, an "item of supply" is NOT a specific item, but the collective identification of all different items thereunder whereby all treated as a single" supply item".
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with a stock number.  an "item of supply". Only an NSN can be called an "item of supply".  Caution: Do not confuse an "item of supply" with an "item of production". The difference is that an "item of supply" is the NSN, which may include many different "items of productions".  PRACTICAL APPLICATION: I.e., an "item of supply" is the NSN and all of the different items that are stocklisted under it that cataloging has binned together and used interchangeably in all applications. Importantly, an "item of supply" is NOT a specific item, but the collective identification of all different items thereunder whereby all
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of all different items thereunder whereby all
treated as a single" supply item".

TERM	ENGINEERING DATA AND	COMMENTS AND	PROVISIONING AND
	CONFIGURATION	COMPARISONS	CATALOGING DEFINITIONS
	MANAGEMENT DEFINITION		
MANUFAC-	MIL-STD-100E PARA 3.45 "An	These two definitions, although appearing the	DOD 4100.39-M: "A manufacturer may
TURER	individual, company, corporation, firm,	same initially, are radically different. While	be an individual, company, firm,
	or Government activity who:	the standardization, engineering, and	corporation, or Government activity that
	a. controls the production of an item, or	configuration definition states that a	controls the design and production of an
	b. produces the item from crude or	manufacturer "controls the production of an	item, or produces an item from crude or
	fabricated materials, or	item" (and not its design), the cataloging	fabricated materials or components, with
	c. assembles materials or components, with or without modification, into more	definition states that a manufacturer <b>may</b> be someone who "controls the DESIGN <b>and</b>	or without modification, into more complex items."
	complex (sic: or less complex) items.	production of an item" or "produces an item".	complex items.
	complex (see, or less complex) items.	Therefore, by stating "may" rather than "is",	PRACTICAL APPLICATION: Used
	DOD4120.3-M, Appendix A-4, par 35:	cataloging makes no positive statement	interchangeably with design activity, current
	"The actual producer that is responsible	about what constitutes a "manufacturer".	design activity, prime contractor, reference,
	for the fabrication or assembly of the	It merely suggests range of possibilities about	reference number, and source.
	final product, as defined by the	who may be a manufacturer, and does not	
	specification."	exclude other possibilities.	
	PRACTICAL APPLICATION: Sometimes	In the 1940s and 1950s, the standardization	
	incorrectly used interchangeably with design	community also used the term	
	activity, original design activity, and current	"manufacturer" in the same conflicting	
	design activity.	context as cataloging. Later, however,	
		standardization created the term "design	
		activity" to prevent confusion between the	
		former conflicting meanings of the term "manufacturer". The term as used in its	
		conflicting meaning by cataloging is some 45	
		years obsolete. The definition as used by	
		MIL-STD-100 is mandatory for use per	
		Public Law 436.	

TERM	ENGINEERING DATA AND	COMMENTS AND	PROVISIONING AND
	CONFIGURATION	COMPARISONS	CATALOGING DEFINITIONS
	MANAGEMENT DEFINITION		
MEDALS CAGE CODE	DEFINITION: None.	In practice, the "MEDALS CAGE CODE" is synonymous with "Original Design Activity CAGE Code". This is the CAGE code required by engineering, configuration, and other logistics customers to identify items listed under stock numbers. This code is not currently available in the DLIS for customer use.	DOD4100.39-M, VOL 12, DRN 2287: "A CAGE code associated with a MEDALS part number."  The MEDALS CAGE code is used to retrieve drawings from repositories without error. The MEDALS CAGE uniquely identifies both the exact document number and part number as established by a specific ODA. Repositories have thousands of drawings that are duplicate numbers of others, and only the ODA CAGE keeps them separate. Thus, the MEDALS CAGE is essential for requesting the proper documents from repositories and avoiding the "right drawing number but wrong CAGE". The same applies to ordering parts. The MEDALS CAGE must be used to avoid delivery of "right part number but wrong
			delivery of "right part number but wrong CAGE" (erroneous) parts.
NATIONAL ITEM IDENTIFI- CATION NUMBER (NIIN)	DEFINITION: None.		DOD 4100.38-M PARA 1.210.62: "A number assigned to each approved Item Identification under the Federal Cataloging Program. It consists of nine numeric characters, the first two of which are the National Codification Bureau (NCB) Code." See "item identification" definition.

TERM	ENGINEERING DATA AND	COMMENTS AND	PROVISIONING AND
	CONFIGURATION	COMPARISONS	CATALOGING DEFINITIONS
	MANAGEMENT DEFINITION		
	DEFINITION: None.	Due to the conflicting definitions of "OEM",	DEFINITION None.
ORIGINAL EQUIPMENT MANUFAC- TURER (OEM)		Due to the conflicting definitions of "OEM", this term should never be used.	DEFINITION None.  PRACTICAL DEFINITION: Rarely used by cataloging/provisioning, but when used, is used to mean "prime", "vendor", "actual manufacturer", "design control activity (sic: design activity)", contractor, and supplier, all interchangeably. When used, is normally not used in the same context used by those who manufacture components, such as tires, lights, oil, valves, cylinders, etc., used by OEMs.

TERM	ENGINEERING DATA AND CONFIGURATION MANAGEMENT DEFINITION	COMMENTS AND COMPARISONS	PROVISIONING AND CATALOGING DEFINITIONS
PART NUMBER	DOD-STD-100C Paragraph 401.5: "Part numbers consist of letters numbers, or combinations of letters and numbers, which may or may not be separated by dashes that are assigned to uniquely identify a specific item. The part number shall be or shall include the design activity drawing number."  PRACTICAL DEFINITION: A part number is a number assigned to a part (i.e. not a drawing, but a PART). Any part number assigned prior to application of MIL-STD-100 for relating part numbers to drawing numbers need not comply with MIL-STD-100, and the part number may have no coherent relationship to the drawing number.	The cataloging and provisioning community informally (but without documented support) equate part numbers directly to reference numbers, and also directly to drawing numbers.  COMMENT: A part number is assigned to a PART. A drawing number is assigned to a DRAWING. Part numbers and drawing numbers are totally unrelated, and represent unrelated entities, even when the numbers are the same. For example, GE part number 4177 is a 47 ton diesel locomotive, and GE drawing number 4177 is a 2 oz sheet of paper with graphics and text. Only MIL-STD-100 forces drawing preparers to establish a coherently numbered relationship to parts and drawings. Again, for emphasis, the difference between GE part number 4177 and drawing number 4177 is 47 tons.	DOD4100.38: (None)  DOD4100.39: (None)  MIL-STD-1388-2B, para 3.9: "See reference number."  DLA-SC (Cataloging headquarters policy office, Alexandria, VA) letter dtd 2 Feb 91: "In cataloging language, the terms part number' and 'reference number' are interchangeable".

TERM	ENGINEERING DATA AND	COMMENTS AND	PROVISIONING AND
LICINI	CONFIGURATION	COMPARISONS	CATALOGING DEFINITIONS
		COMI ARISONS	CATALOGING DEFINITIONS
	MANAGEMENT DEFINITION		
PART OR	MIL-STD-100E PARA 3.61: "The	Importantly, the PIN uniquely identifies an	<b>DEFINITION: None.</b>
IDENTIFYING	identifier assigned by the responsible	ITEM (not a document), and is unique only	
NUMBER	design activity or by the controlling	with respect to THAT SPECIFIC CAGE	
	nationally recognized standard which	CODE ACTIVITY THAT ISSUED THE	
	uniquely identifies (relative to that design	PIN. All design activities can issue the exact	
	activity) a specific item. The PIN	same PIN, such as PIN "4177", but each	
	generally includes the controlling	different PIN "4177" is absolutely unique	
	drawing or document number and	when used in conjunction with the original	
	optional suffix. The PIN does not include	issuing design activity CAGE code.	
	the drawing revision identifier, drawing		
	size, or CAGE code. The term "part or identifying number" replaces the terms		
	"part number" and "bulk material		
	identification number". (ASME Y14.24		
	and MIL-STD-961)		
	and Will-51D-701)		
	MIL-STD-100E PARA 404: "The Part or		
	Identifying Number (PIN) shall consist of		
	letters, numbers or combinations of		
	letters and numbers, which may or not be		
	separated by dashes or slashes that are		
	assigned to uniquely identify a specific		
	item. The PIN shall be or shall include		
	the design activity drawing number, and		
	may include a dash number suffix (if		
	applicable). (See 406.6.) The PIN		
	assigned to a specific item and the		
	CAGE code assigned to the drawing		
	of the item provide a unique item		
	identification.		
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TERM	ENGINEERING DATA AND	COMMENTS AND	PROVISIONING AND
	CONFIGURATION	COMPARISONS	CATALOGING DEFINITIONS
	MANAGEMENT DEFINITION		
PRIME	DEFINITION: None.	This term should be avoided.	DEFINITION: None.
	PRACTICAL APPLICATION: A contraction of "prime contractor". Often incorrectly used interchangeably with original design activity and current design activity. The prime contractor has no absolutely no relationship whatever to a design activity. (Some at this point inject "but the prime contractor could be the design activity", but "could be" does not equate to "is".)		PRACTICAL APPLICATION: Sometimes used in lieu of original or current design activity.
PRIME CONTRACTOR	DEFINITION: None.	This term is synonymous with "Contractor", except that the adjective "Prime" is used to infer the existence of one or more subcontractors to the contractor (see "CONTRACTOR"). The key is that the prime contractor has the contract with the government, and subcontractors have a contract with the prime contractor.	DEFINITION: None.
		This term is totally unrelated to drawing or part identification	
REFERENCE	ASME Y14.24M-1989, APPENDIX A, DEFINITIONS. Reference to invoke associated data by callout on an engineering drawing. Such callouts may be located on the field of the drawing, in the general notes, in the parts lists, or elsewhere on the drawing.	In the case of cataloging, it is not clear whether the term "reference" applies to a reference/part number or document number, and also not clear as to whether it is the combination of a reference/part number or drawing number and "the" (?) CAGE code. If intended to include a CAGE code, it is not clear whether cataloging intends for the CAGE to be the ODA, CDA, government design control activity, supplier/vendor, or a manufacturer for the supplier.	See "design control reference" and "reference number.

TERM	ENGINEERING DATA AND	COMMENTS AND	PROVISIONING AND
	CONFIGURATION	COMPARISONS	CATALOGING DEFINITIONS
	MANAGEMENT DEFINITION		
REFERENCE	DEFINITION: None.	Highly controversial term in cataloging, with	DOD4100.38-M: "Any number, other than a
NUMBER		three conflicting meanings:	Government activity stock number, used to
	PRACTICAL APPLICATION: In		identify an item of production or, used either by itself or in conjunction with other reference
	engineering data and configuration management, the term "reference number" is	1. Reference nr = drawing nr, part nr, model nr, catalog nr, trade name, etc.	numbers, to identify an item of supply.
	a number that has been referenced as a	ir, catalog ir, trade name, etc.	Reference numbers include manufacturer's
	required document or item by a drawing in	2. Reference nr = part number and some	part, drawing, model, type, source controlling numbers, and the manufacturer's, and the
	support of that drawing.	CAGE code (unspecified as to who)	manufacturer's trade name; specification or
			standard part, drawing, or type numbers. (See
	EXAMPLE 1: MIL-STD-100E para 3.3.6:	3. Reference nr = part number.	chapter IV for modifications of reference
	"Find number or item number. A <b>reference</b>	A14 1 . 1 . 1 . C. 1 . 1	numbers.) National Stock Numbers, assigned to Foreign Government National Item
	<b>number</b> assigned to an item in lieu of the item's identifying number on the field of the	Although cataloging has a fairly clear definition of "reference number" in MIL-	Identifications, have been included as reference
	drawing and entered as a cross <b>reference</b> to	STD-1388-2B and DOD4100.38-M (see	numbers with an FSCM of 99995."
	the item number of the parts lists where the	definition on the right), catalogers are trained	MH CED 1200 AD DADA 2.13. HA
	item name and identification number are	that the "reference number" is the "CAGE	MIL-STD-1388-2B PARA 3.12: "Any number other than a government activity stock number than a givernment activity stock number than a givernment activity stock number of the stock number o
	given. Reference designations in	code and the reference number/part number",	used to identify an item of production, or used
	accordance with ANSI/IEEE Std 200 may be	although there is nothing in the definition or	by itself or in conjunction with other reference
	used as find numbers or item numbers (ASME Y14.34M)	in cataloging practices to support the claim All documentation shows that the reference	numbers to identify an item of supply.  Reference numbers include: manufacturer's
	(ASME 114.54M)	number does not include the CAGE code.	part, drawing, model, type, or source
	EXAMPLE 2: DOD-STD-100C para 402.3	Further, the MCRL list and MCRL guide	controlling numbers; manufacturer's
	states "Referenced documents. All	shows a "reference number" column that	tradename; specification or standard numbers and, specification or standard part drawing, o
	documents other than Government or non-	does not include CAGE codes. Further,	type numbers. See appendix E, Data Element
	government specifications or standards shall	catalogers cannot define who the CAGE code	Definition 330."
	have a document identification number, and a FSCM number."	represents in the undocumented "reference number" trainer's definition. When	
	a rscw number.	catalogers are asked why the reference	In other words, a "reference number" is any combination of letters and numbers that
	EXAMPLE 3: DOD-STD-100C para 601.1	number includes the CAGE code, the	cataloging enters into the "reference number
	for parts lists: " <b>Reference</b> documents may	response is "but you have to know whose part	column or field. That entry "identifies" an
	also be tabulated on a parts list."	number, therefore the reference number	item of supply (an NSN) by itself if there is
		includes the CAGE code". The same	only one "reference number" entry, or if the
	(continued on next page)	rationale, however, could be applied to drawing numbers having to include the	is more than one entry, the group of differen
		CAGE code, because "you have to know	reference numbers collectively identify the
		whose drawing number, therefore the	"item of supply" (i.e., NSN). A "reference number" also identifies the part number
		drawing number includes the CAGE code".	portion of the "item of production" (a par
		(continued on next page)	number and an undefined CAGE code).
		(commune on new page)	

TERM	ENGINEERING DATA AND CONFIGURATION MANAGEMENT DEFINITION	COMMENTS AND COMPARISONS	PROVISIONING AND CATALOGING DEFINITIONS
REFERENCE NUMBER (CONT)		Of course, drawing numbers do not include CAGE codes, although conjunctive use of the ODA CAGE code with the drawing number is necessary for a complete drawing identification. This principle of conjunctive use is the same as using a city name and state name together to uniquely identify a city in the US, such as stating Hollywood, California to uniquely distinguish that city from Hollywood, California and Hollywood, Maine.	A reference number does NOT include a CAGE code.  The following shows the "one-way only" umbrella relationship of reference numbers to other numbers:  PART NUMBER (812293-1)  DRAWING NR (8121293)  R E MODEL NR (SRT 101)  F TYPE NR (BA-77/A)  R E TRADE NAME (DELRIN)  N -> C SPECIFICATION (GGG-D-196) E MIL STD PART NR (MS16116-1)  N R CATALOG NR (24X41) MISC NR (34X4 NO INNER RACE)
SOURCE	DEFINITION: None.  PRACTICAL APPLICATION: "Source" is considered to be a named or unnamed, unidentified future source for a specifically identified item.		DEFINITION: None.  PRACTICAL APPLICATION: "Source" is considered to jointly be a part number and where it can be procured, or jointly a reference number and where it can be procured. Also used synonymously with "reference numbers".

TERM	ENGINEERING DATA AND CONFIGURATION MANAGEMENT DEFINITION	COMMENTS AND COMPARISONS	PROVISIONING AND CATALOGING DEFINITIONS
SOURCE OF SUPPLY CODE	DEFINITION: None.  PRACTICAL APPLICATION: A source identified by its CAGE code, presently or in the future, that can now or potentially supply a specifically identified item. The name and CAGE of the source of supply have no relationship to the item's ODA (original design activity's) or CDA (current design activity) CAGE code and name.		DEFINITION: DOD4100.39-M VOL 12 DRN9250, "An activity having sole responsibility for submittal of catalog data proposals to the Defense Logistics Services Center where management responsibility includes all items of supply in a given FSC class (Category A Single Submitter) or where management responsibility is determined on a by-item basis within a given FSC class (Category C)."
			EXAMPLE: Per DOD4100.39 VOL 10, the source of supply is SA-ALC for NSNs that are assigned a source of supply code of "FPH". I.e., the source of supply in cataloging terminology is always a government facility, and never a contractor.
			PRACTICAL APPLICATION: In contrast to cataloging directives, cataloging uses the term normally in the context of where the NSN, including all of the different items cataloged under it, can be procured. Often cataloging uses the term to mean both a source and that source's unique part number, in contrast to a potential source for an item identified by some other design activity's CAGE code and part number.
SUBVENDOR	DEFINITION: None.	A term often improperly used in lieu of "vendor" or "subcontractor". The logical definition is "a vendor to a vendor", with neither involved in a contract.  Avoid this term. The proper terms are "Vendor" or "Subcontractor"	DEFINITION: None.

TERM	ENGINEERING DATA AND	COMMENTS AND	PROVISIONING AND
	CONFIGURATION	COMPARISONS	CATALOGING DEFINITIONS
	MANAGEMENT DEFINITION		
TECHNICAL	DFARS, PARA 27.401: "Technical data"	COMMENT: "Technical data" includes the	DFARS PARA 27.401; and DLAR 8400.3:
DATA	means recorded information, regardless	ENTIRE SPECTRUM of all data of a	(Identical to Engineering/Configuration
	of form or characteristic, of a scientific	technical nature. Consequently, it is	definition.)
	nature. It may, for example, document	imperative that when one speaks of	
	research, experimental, developmental, or	"technical data", that one further specify the	
	engineering work; or be useable or used	exact KIND of technical data, such as	
	to define a design or process or to	"technical manuals", or "engineering data	
	acquire, produce, support, maintain, or	(drawings and associated lists, standards, and	
	operate material. The data may be	specifications), <i>provisioning data</i> , or a	
	graphic or pictorial delineations in media such as drawings or photographs; text in	printout of cataloging data from the Federal	
	specifications or related performance or	Cataloging System. A request for "technical	
	design type documents; or computer	data" is confusing, because the deliverable	
	printouts. Examples of technical data	data can be any kind of technical data.	
	include research and engineering data,		
	engineering drawings and associated lists,		
	specifications, standards, process sheets,		
	technical manuals, technical reports,		
	catalog item identifications and related		
	information, and computer		
	documentation. Technical data does not		
	include computer software or financial,		
	administrative, cost and pricing, and		
	management data, or other information incidental to contract administration."		
	incidental to contract administration.		

TERM	ENGINEERING DATA AND	COMMENTS AND	PROVISIONING AND
	CONFIGURATION	COMPARISONS	CATALOGING DEFINITIONS
		COMPHISONS	CATALOGING DELINITIONS
TECHNICAL DATA PACKAGE	MANAGEMENT DEFINITION  MIL-T-31000 PARA 6.5.20: "A technical description of an item adequate for supporting an acquisition strategy, production, engineering and logistics support. The description defines the required design configuration and procedures required to ensure adequacy of item performance. It consists of all applicable technical data such as drawings and associated lists, specifications, standards, performance requirements, quality assurance provisions, and packaging details."  COLLOQUIAL DEFINITION: A complete set of engineering data.	CAUTION: A "package of technical data" does NOT equate to "technical data package". Technical data, and a "package of technical data" is the entire spectrum of ALL forms of data of a technical nature, and may be technical manuals, test reports, technical analysis, etc. A "technical data package", by unique (and confusing) definition, equates normally to "a package of engineering data". (See "engineering data".) I.e., if one needs drawings and other engineering data, do not use the overly broad term "technical data" to request it. One could get technical manuals instead, for example. Use the term "engineering data" to request drawings and related engineering data.  Additionally, a "technical data package" may	DEFINITION: None.
VENDOR	MIL-STD-100E, PARA 3.89: A source from whom a purchased item is obtained: used synonymously in this standard with the term "supplier".	consist of data not considered to be "engineering data", such as "operating instructions" which are a form of "technical manuals".  Use of this term for a supplier or source infers no particular contract involvement. A vendor becomes also a contractor or subcontractor when bound by a specific contract.	DEFINITION: None.